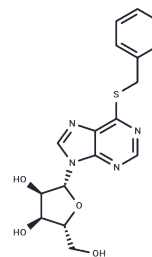


6-Benzylthioinosine

Chemical Properties

CAS No. :	6165-03-3
Formula:	C17H18N4O4S
Molecular Weight:	374.42
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	6-Benzylthioinosine, a broad-spectrum metabolic inhibitor, inhibits glucose uptake, decreases glycolysis and ATP concentration with minimal changes in ROS and mitochondrial respiration.
Targets(IC50)	Others,Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6708 mL	13.354 mL	26.708 mL
5 mM	0.5342 mL	2.6708 mL	5.3416 mL
10 mM	0.2671 mL	1.3354 mL	2.6708 mL
50 mM	0.0534 mL	0.2671 mL	0.5342 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sabnis HS, Bradley HL, Tripathi S, Yu WM, Tse W, Qu CK, Bunting KD. Synergistic cell death in FLT3-ITD positive acute myeloid leukemia by combined treatment with metformin and 6-benzylthioinosine. *Leuk Res.* 2016 Nov;50:132-140. doi: 10.1016/j.leukres.2016.10.004. Epub 2016 Oct 5. PubMed PMID: 27760406; PubMed Central PMCID: PMC5083204.

Zang S, Liu N, Wang H, Wald DN, Shao N, Zhang J, Ma D, Ji C, Tse W. Wnt signaling is involved in 6-benzylthioinosine-induced AML cell differentiation. *BMC Cancer.* 2014 Nov 27;14:886. doi: 10.1186/1471-2407-14-886. PubMed PMID: 25428027; PubMed Central PMCID: PMC4289047.

Chakrabarti A, Gupta K, Sharma JP, Yang J, Agarwal A, Glick A, Zhang Y, Agarwal M, Agarwal MK, Wald DN. ATP depletion triggers acute myeloid leukemia differentiation through an ATR/Chk1 protein-dependent and p53 protein-independent pathway. *J Biol Chem.* 2012 Jul 6;287(28):23635-43. doi: 10.1074/jbc.M111.312801. Epub 2012 May 23. PubMed PMID: 22621920; PubMed Central PMCID: PMC3390638.

Al Safarjalani ON, Rais RH, Kim YA, Chu CK, Naguib FN, El Kouni MH. Carbocyclic 6-benzylthioinosine analogues as subversive substrates of *Toxoplasma gondii* adenosine kinase: biological activities and selective toxicities. *Biochem Pharmacol.* 2010 Oct 1;80(7):955-63. doi: 10.1016/j.bcp.2010.06.001. Epub 2010 Jun 10. PubMed PMID: 20541538; PubMed Central PMCID: PMC2923275.

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